



Woolich Racing

Bike Harness Installation Instructions

Yamaha Harness Type 4

2006-2014 R6

2007-2008 R1



Introduction

To connect your Woolich Racing product to the ECU ('Engine Control Unit') in your bike you need to install the bike harness. This is a relatively simple procedure that involves:

- 1) Locating the ECU in your bike.
- 2) Removing one of the ECU Plugs.
- 3) Re-pinning 3 existing pins on the ECU Plug
- 4) Installing 6 new pins into the ECU Plug.

The above procedure is described in detail in this guide and should only take approximately 30 minutes to complete.

Hardware

To install the on bike harness you should have the following hardware as supplied with your Woolich Racing product:

- 1) Yamaha Type 4 Harness

Tools

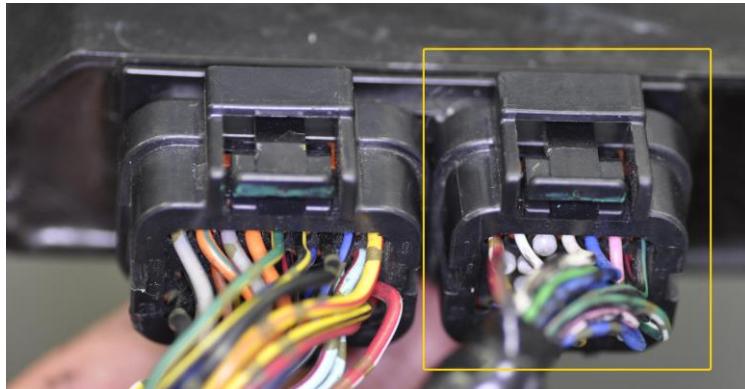
The following tools will be useful when installing the Woolich Racing bike harness:

- 1) Small flat head screwdriver (used for removing and installing plug caps, and installing pins).
- 2) Side Cutters for cutting and stripping wires
- 3) Pointy Nose pliers for crimping ECU pins when repining.

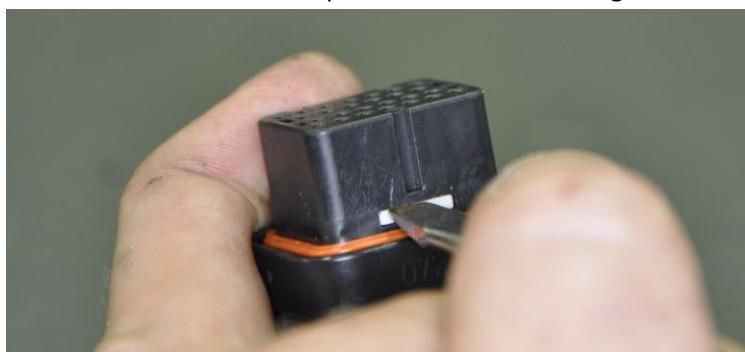


Re-pinning 3 Existing Pins

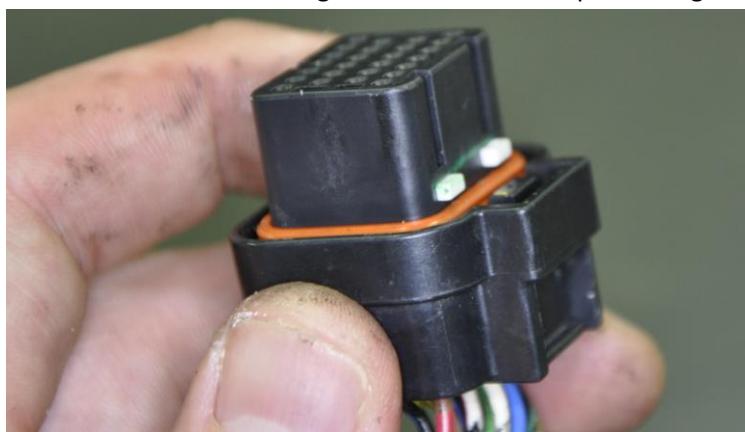
- 1) Locate ECU in Bike
- 2) Remove the smaller ECU plug from the ECU



- 3) Use a small screwdriver to push in the white locking tab

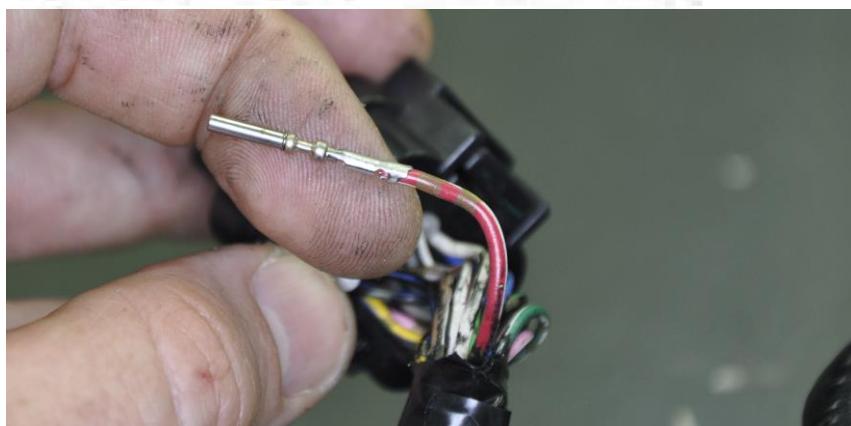
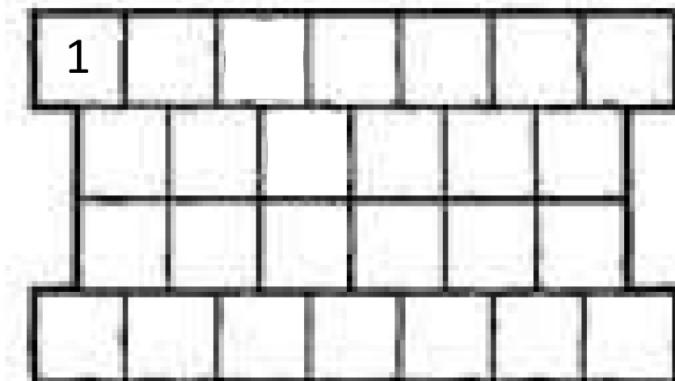


- 4) The 2 smaller white locking tabs should now be protruding out of the plug on the other side

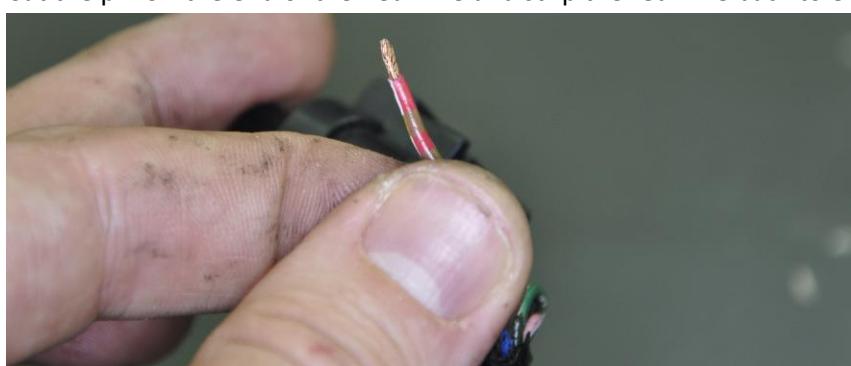




5) Remove the Red wire from position 1 in the ECU Plug



6) Cut the pin off the end of the Red wire and strip the red wire back to expose the wire inside

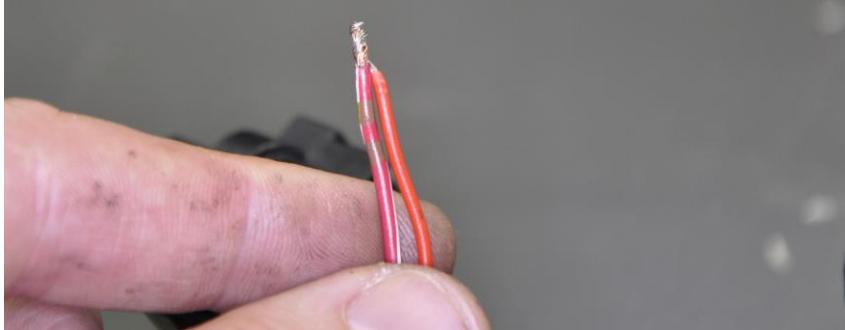


7) Strip the Red wire from the Woolich Racing Yamaha Harness Type 4





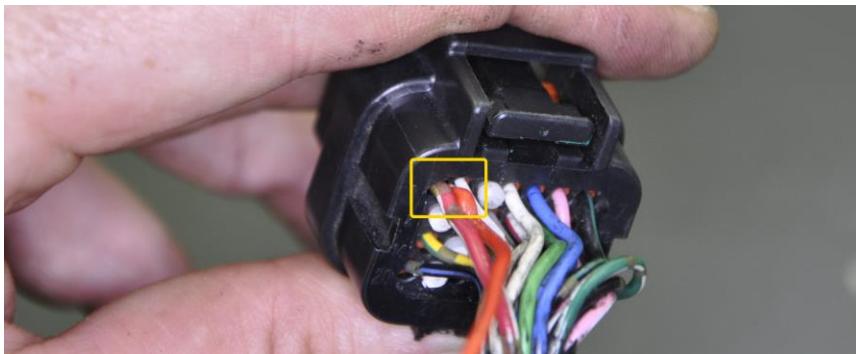
- 8) Twist the 2 red wires together



- 9) Crimp a new ECU pin onto the 2 red wires

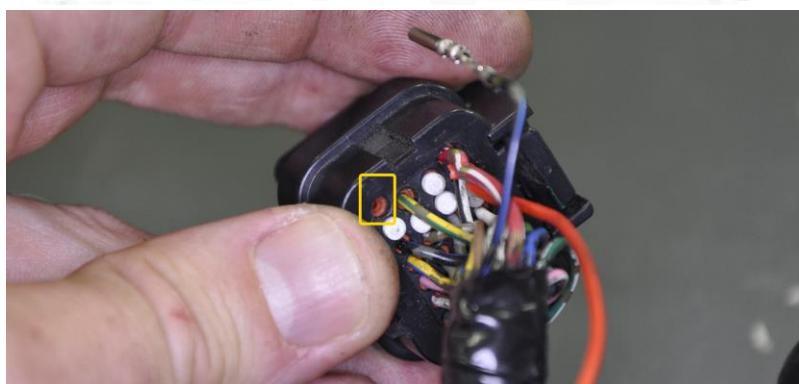
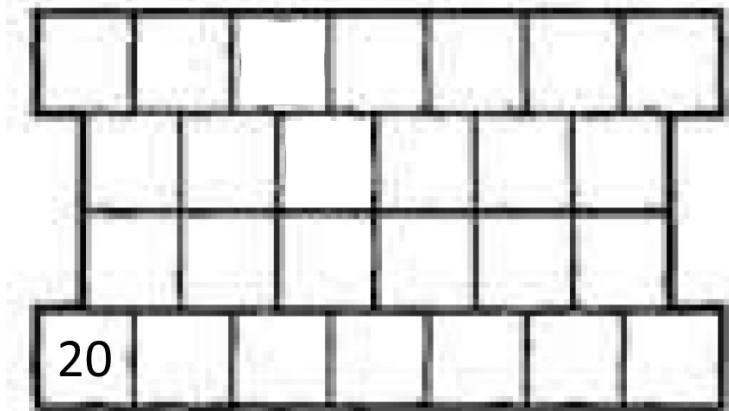


- 10) Install the new pin and wires into Position 1 in the ECU Plug

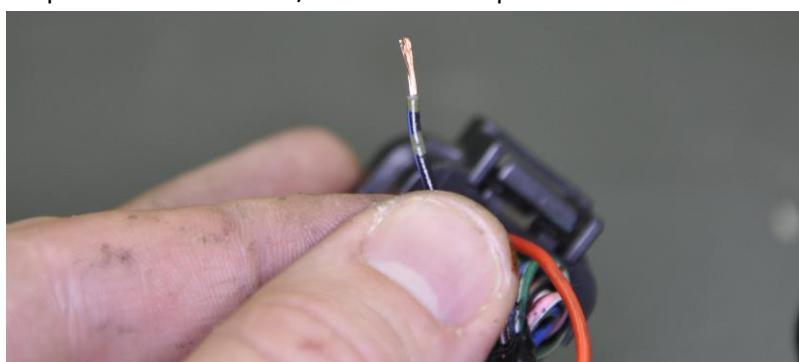




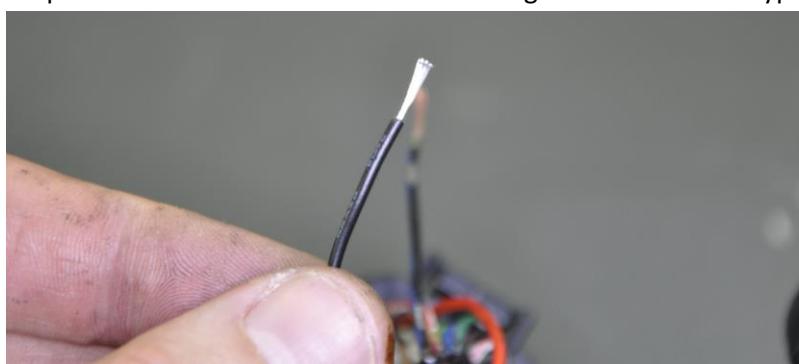
11) Remove the Black/Blue wire from ECU pin position 20



12) Strip the end of the Blue/Black wire to expose the wire.

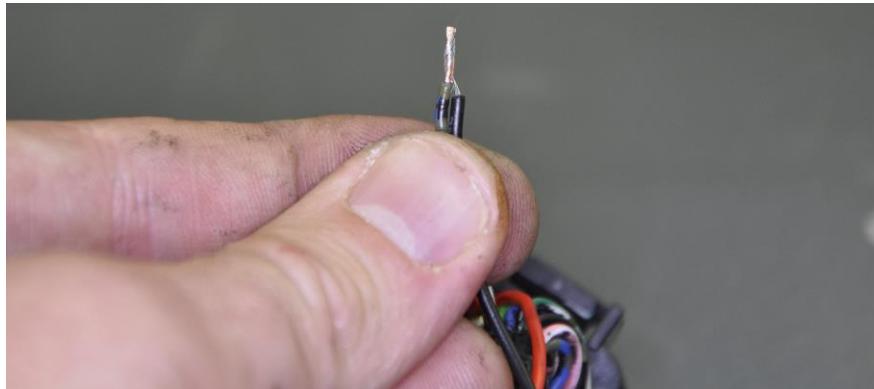


13) Strip the Black wire from the Woollich Racing Yamaha Harness Type 4

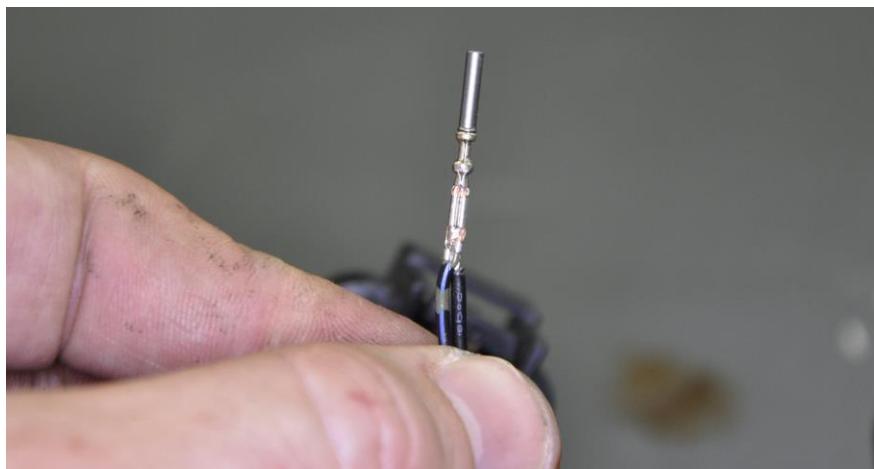




14) Twist the Blue/Black wire and the Black wire together

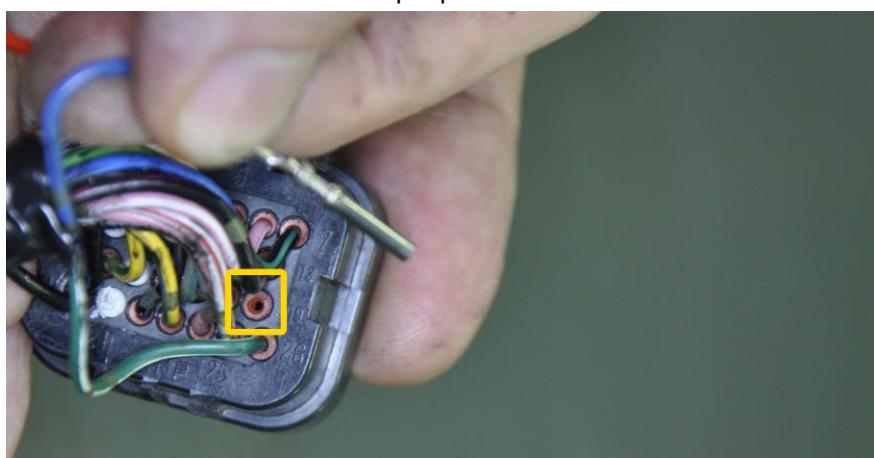


15) Crimp a new pin onto the wires



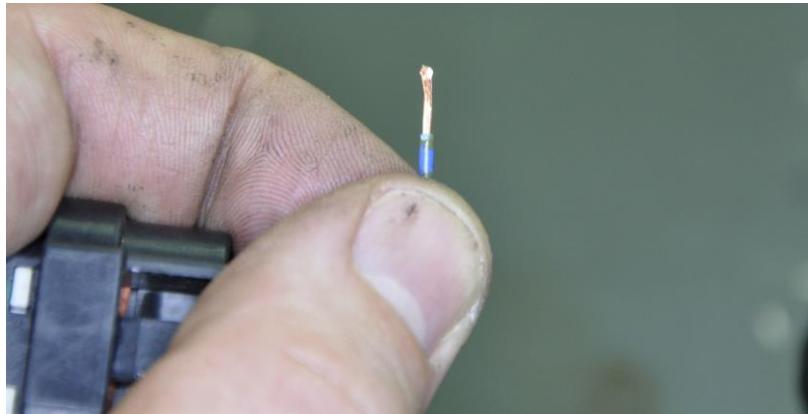
16) Insert the pin and wires back into ECU pin position 20

17) Remove the Blue wire from ECU pin position 19

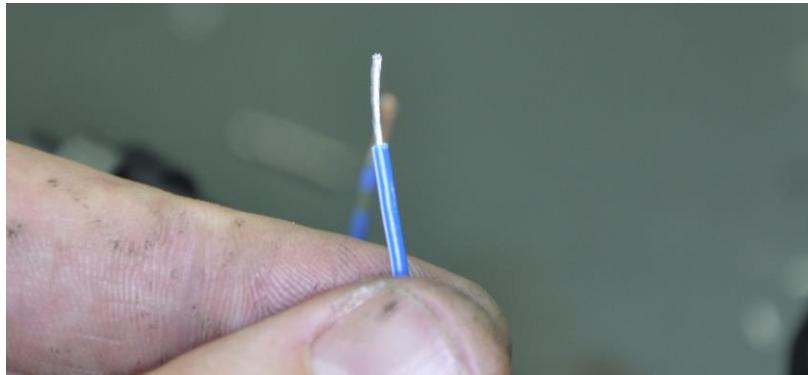




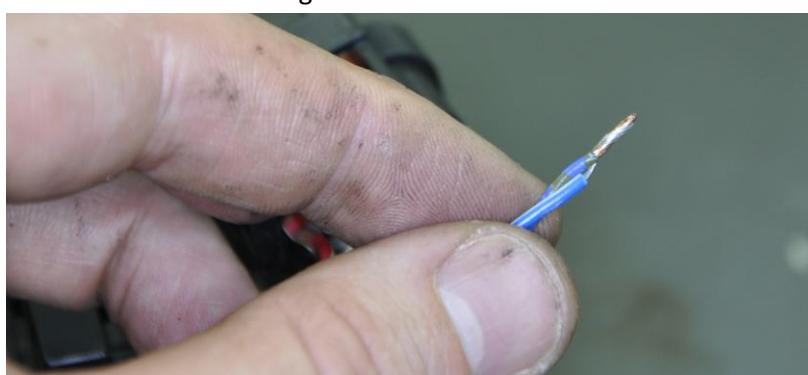
18) Strip the blue wire to expose the wire



19) Strip the blue wire from the Woolrich Racing Yamaha Harness Type 4

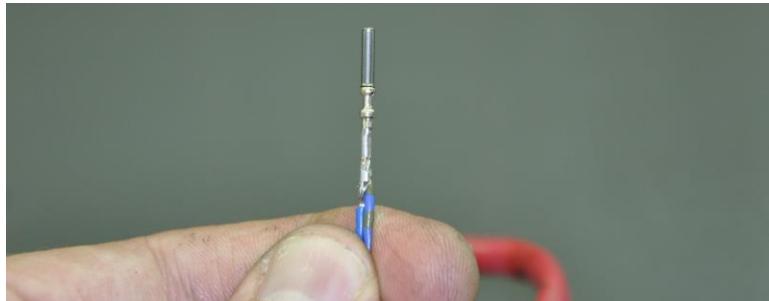


20) Twist the 2 blue wires together





21) Crimp a new ECU pin onto the blue wires



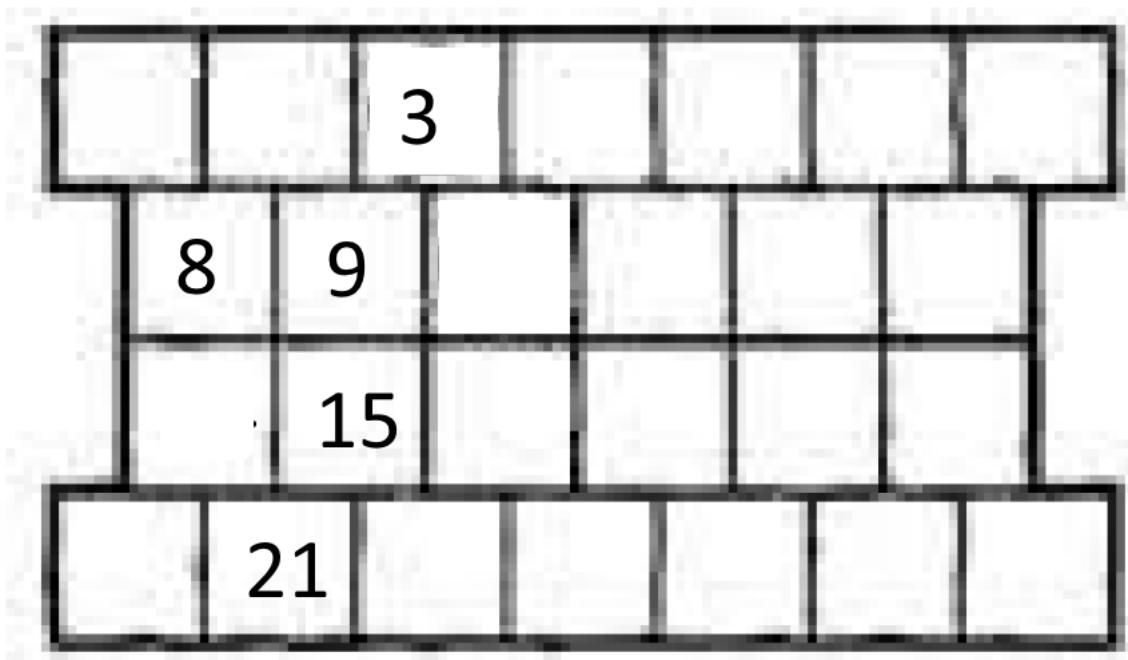
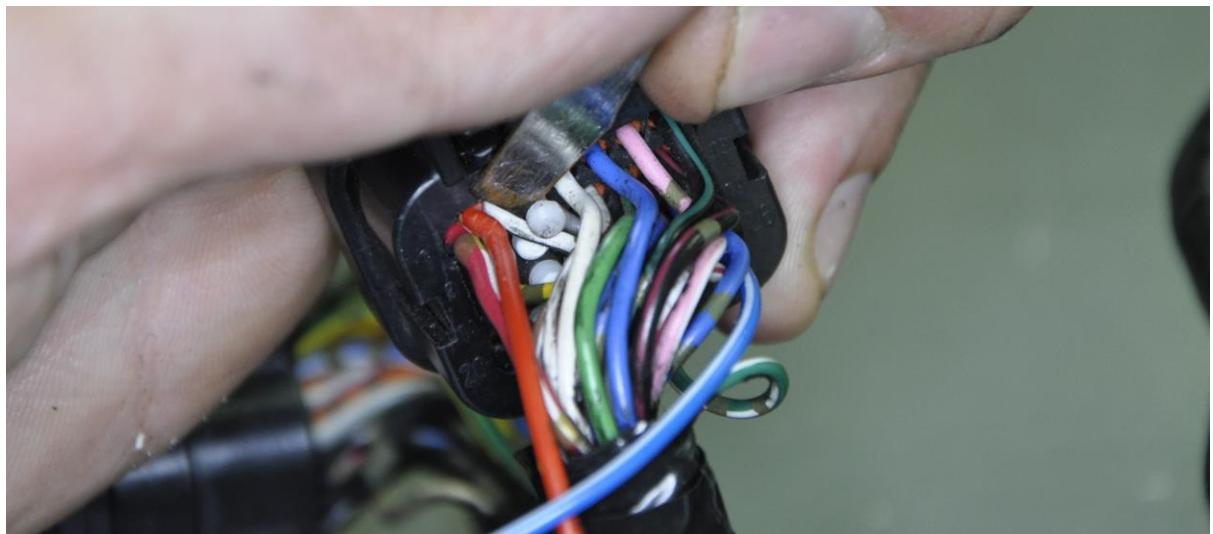
22) Install the pin back into pin position 19





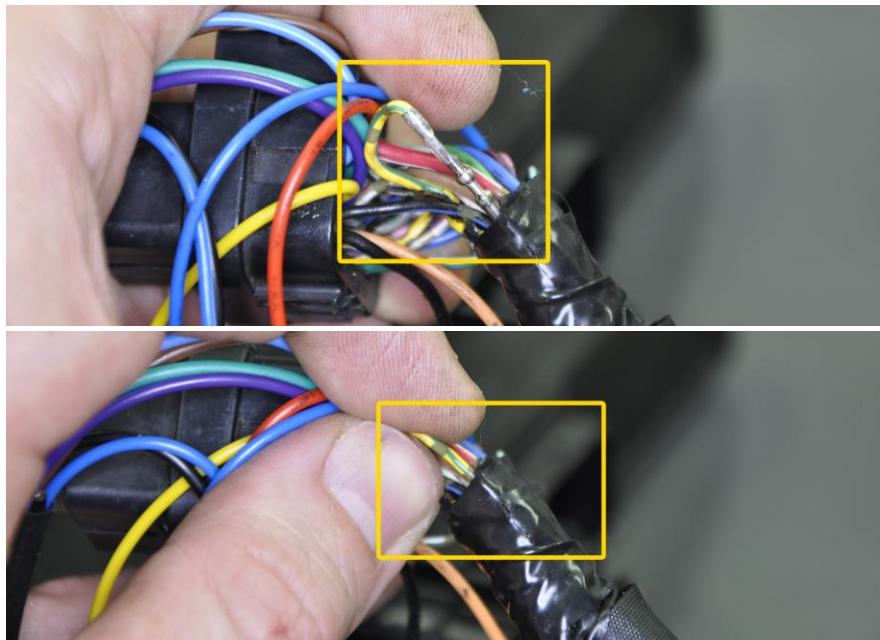
Installing 6 new pins into ECU

23) Use a small screwdriver to remove the plastic pins from pin positions 3, 8, 9, 15, 21



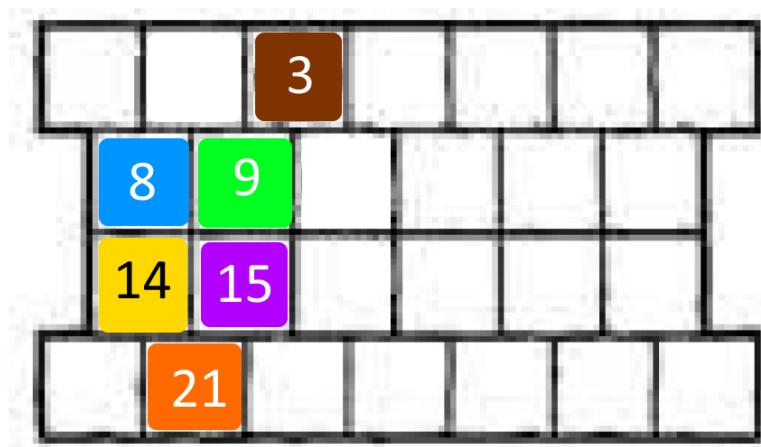


24) Remove the yellow wire from pin position 14 and tuck it into the insulation on the bike harness



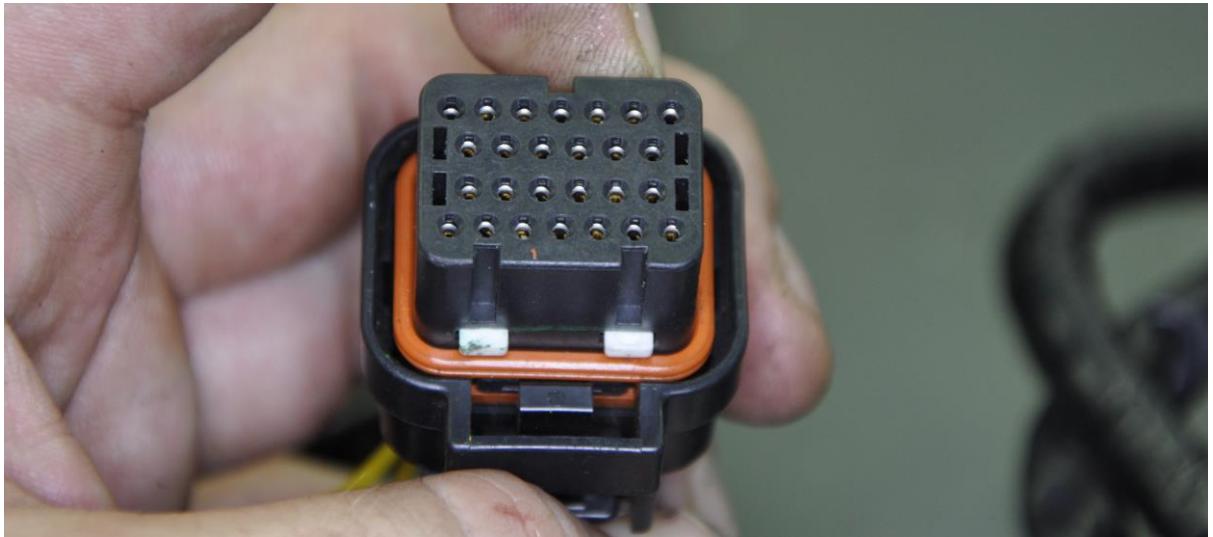
25) Install pins from Woolrich Racing Yamaha Harness Type 4 into the following ECU Plug pins

Brown	Pin 3
Blue	Pin 8
Green	Pin 9
Yellow	Pin 14
Purple	Pin 15
Orange	Pin 21





26) Check the ECU side of the ECU plug to ensure that all of the pins are pushed in fully and are seated in the ECU plug.



27) Use a small screwdriver to push the 2 white locking tabs back into the ECU Plug





Switch and Button Function

There is a 3 position switch and a push button on the Yamaha Harness Type 4.

Position O (centre) should be selected when you want to run the engine or ride the bike:



Position I should be selected when you are writing a bin file to processor I in the ECU, the WRT software will prompt you when you need to select this position:



Position II should be selected when you are writing a bin file to processor II in the ECU, the WRT software will prompt you when you need to select this position:





The push button "Reset" switch is used to reset the ECU when writing. The WRT software will prompt you to push the "Reset" button during the write process:



Final Installation

Reassemble any components you may have taken off your bike during the install. Now your hardware should be ready to start flashing your ECU.



Warranty

Woolich Racing Warranty obligations are limited to the terms set forth below.

Woolich Racing warrants this product against defects in material and workmanship for the period of one (1) year. The warranty period begins with the date of original retail purchase.

This limited warranty is made only to the original end user purchaser ("you") of the product and does not extend to any subsequent purchasers or owners of the product. The "original end user" is the first user to put the product into service in any fashion. It is your responsibility to establish the warranty period by verifying the original purchase date.

If you discover a defect, Woolich Racing will, at its option, repair or replace this product with a new or reconditioned product at no charge to you, provided you return it during the warranty period, with transportation charges prepaid, to Woolich Racing. Please attach your name, address, telephone number, and a copy of the receipt from Paypal as proof of date of original purchase, as well as a detailed description of the problem for which service is requested. You are responsible for packing the product to be returned. If the repairs are covered by the Limited Warranty and if the product was properly shipped to Woolich Racing, Woolich Racing will pay the return shipping charges. This warranty applies only to Woolich Racing products. This warranty does not cover damaged resulting from accident, misuse, abuse, or neglect and/or damage during any type of transportation resulting from improper packaging; damage to any product which has been altered in any fashion, including damage resulting from causes other than product defects, including and not by way of limitation, lack of technical skill, competence, or experience of the user, and/or failure to use the product in accordance with the instructions provided in the User's Manual or Installation Manual; and service performance by an unauthorized person or entity. Any implied warranties including fitness for use and merchantability are limited to the period of the expressed warranty set forth above. The remedies provided under this warranty are exclusive and in lieu of all others.

Disclaimer

This product is meant for Off-Road use only and is not street legal. Owner assumes responsibility for his or her own actions when using this product. Woolich Racing hereby expressly disclaims liability and shall not be responsible for incidental, consequential and contingent damages or any kind or nature, including, without limitation: damages to persons or property, whether a claim for such damages is based upon warranty, contract, tort or otherwise; damages due to or arising out of the loss of time; or loss of profits. Woolich Racing shall not be responsible for any damages caused by the presence of error or omission in any of its manuals, instructions or related materials.